



✓ **Congratulations! You passed!**

TO PASS 70% or higher

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Basic Data Descriptors and Data Distributions

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1. Download the file "OrderList.xlsx." This file contains basic customer order information, including an order number, the region where the order was placed, the age of the customer, and the total dollar amount of the order. Use the data in this file for the remainder of the assignment.

1 / 1 point

OrderList.xlsx

The total number of orders in the "OrderList.xlsx" file is:

3000

✓ Correct

2. The median of "Total Sale \$" is larger than the mean. By how much? Round to 2 decimal places.

1 / 1 point

2.81

✓ Correct

3. What is the standard deviation of Total Sale? Round to 2 decimal places.

1 / 1 point

120.27

✓ Correct

4. What percentage of orders fell within the interquartile range of Total Sale?

1 / 1 point

50

✓ Correct

By definition, the interquartile range covers 50% of data.

5. What is the approximate shape of the distribution of total sales? (Hint: Create a histogram to see, or use what you know about the mean/median relationship and the rule of thumb.)

1 / 1 point

- ☐ The distribution is uniform.
- ☒ The distribution is symmetric.
- ☐ The distribution is skewed right.
- ☐ The distribution is skewed left.

✓ Correct

6. Given the limited information you have, your boss wants you to group customers in a meaningful way. You decide to take a look at how the order region impacts things. Calculate the average total sales from the North region only. What is the difference between the North region average total sales and the average total sales across all regions (including the North)? Round to 2 decimal places.

1 / 1 point

[Note: To calculate the average total sales from the North region only you could either "sort" the data and calculate the average or "filter" the data, copy and paste as values and then calculate the average. Please refer to Course 1 of this specialization for details on sorting and filtering data]

1.44

✓ Correct

7. What is the absolute value of difference between the North region median total sales and all orders median total sales (across all regions including the North)?

1 / 1 point

Round your answer to two decimal places.

[Note: To calculate the median total sales from the North region only you could either "sort" the data and calculate the median or "filter" the data, copy and paste as values and then calculate the median. Please refer to Course 1 of this specialization for details on sorting and filtering data]

0.58

✓ Correct

8. Next, take a look at customer age. Create 3 age groups: 21-30, 31-40, 41-50. What is the average total sales for the age group with the highest average? Round to 2 decimal places.

1 / 1 point

494.62

✓ Correct

9. What is the median total sales of the age group with the highest average Total Sales? Round to 2 decimal places.

1 / 1 point

479.27

✓ Correct

10. Given the mean and median of the group with the highest average sales, what can you say about the distribution of total sales within that group?

1 / 1 point

- ☐ The distribution is uniform.
- ☐ The distribution is normal.
- ☒ The distribution is skewed right.
- ☐ The distribution is skewed left.

✓ Correct

11. Based on this data, what would you recommend to your boss?

1 / 1 point

- ☐ We should separate customers by region and target the North region as our main customer segment. That segment has historically brought in higher average total sales.
- ☒ We should separate customers by age group and target 21-30 as our main customer segment. That segment has historically brought in higher average total sales.
- ☐ We should separate customers by age group and target 31-40 as our main customer segment. That segment has historically brought in higher average total sales.
- ☐ We should separate customers by age group and target 41-50 as our main customer segment. That segment has historically brought in higher average total sales.

✓ Correct